



Ventura County

Solar Canopy Tree Mitigation Plan



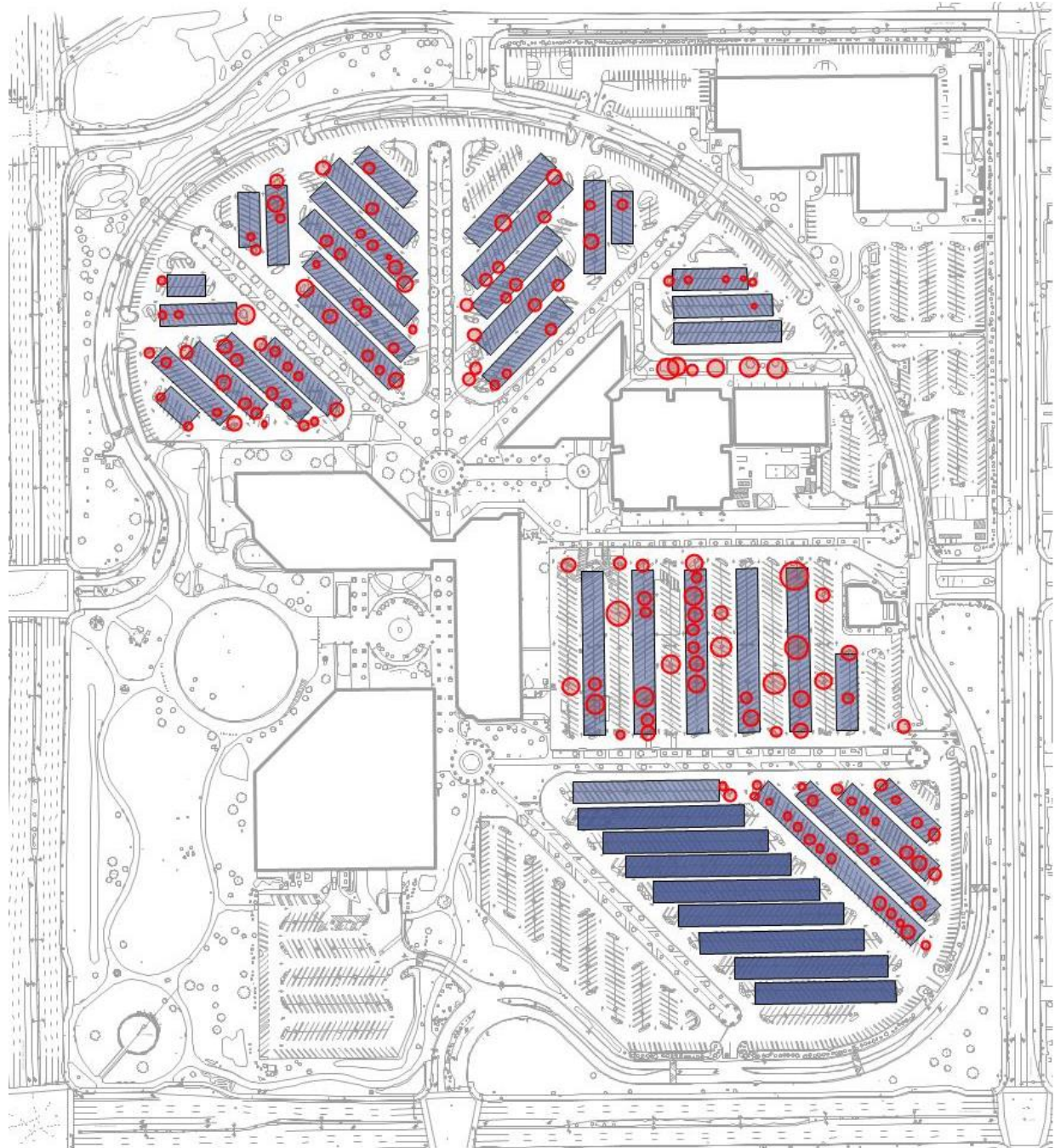
David Barley – General Services Agency,
Manager – Security, Special Services,
Housekeeping and Grounds

December 13, 2022



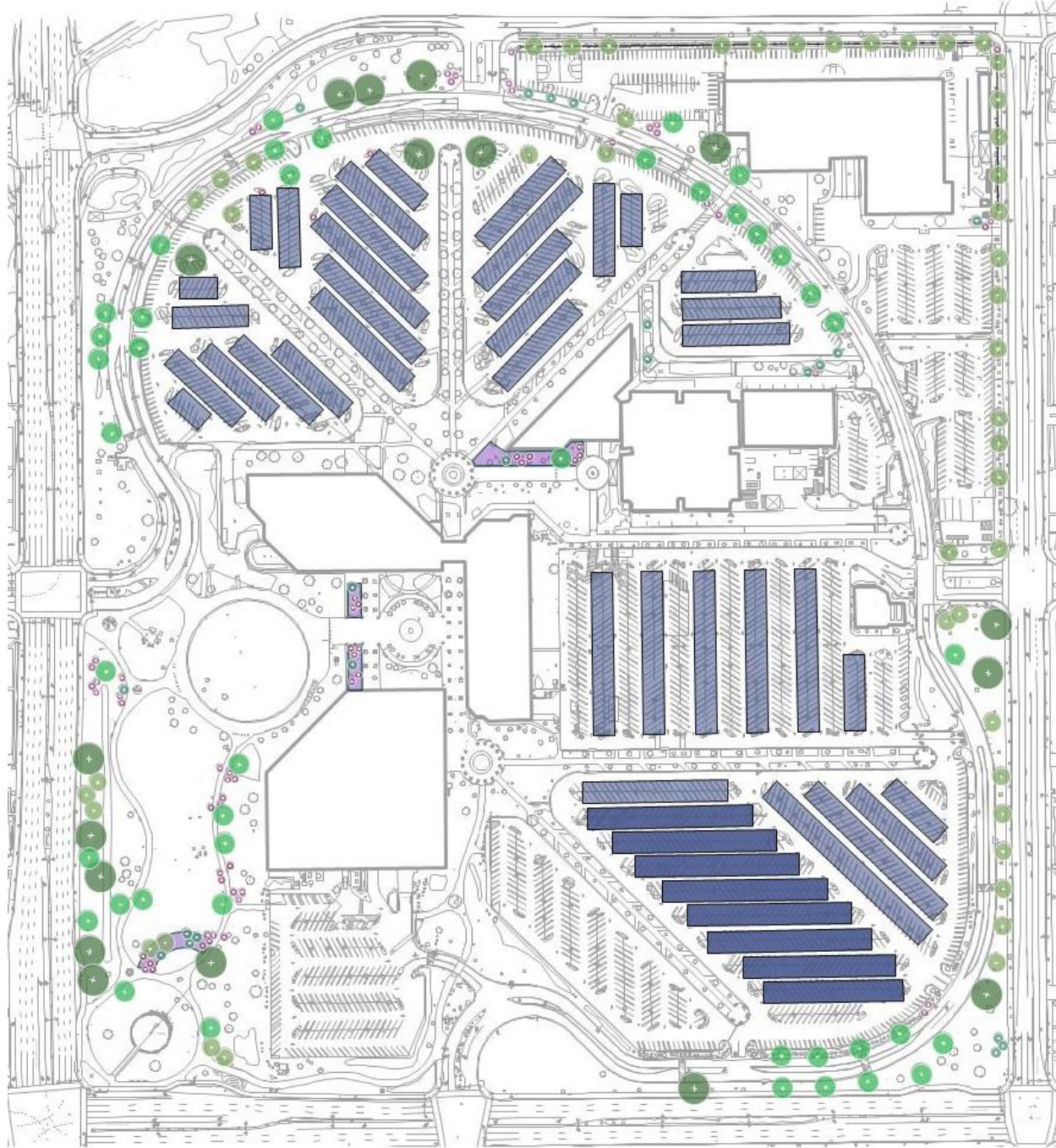
EXISTING TREE IMPACTS

Solar Canopy Project
requires the removal of
148 existing trees.



PROPOSED TREE PLANTING

GSA aims to replace **148** trees and add an additional 52 for a total 200 trees.



PROPOSED TREES



Large Evergreen Tree *(Example)*
(9% of Proposed Trees)
 (N) Coast Live Oak
 Holly Oak



Large Deciduous Tree *(Example)*
(22% of Proposed Trees)
 Shamel Ash
 (N) California Sycamore
 Chestnut-leaved Oak



Vertical Character Tree *(Example)*
(10% of Proposed Trees)
 Rose Gum
 (N) Island Ironwood
 Mondell Pine
 Compton Oak

A balance of native and climate adapted trees.

Trees selected with input from Pacific Coast Land Design for drought resilience and longevity.

Variety of tree size and character.

New trees will initially be irrigated with tree watering bags.

Pending drought conditions, new trees may be watered in the future with drip irrigation.



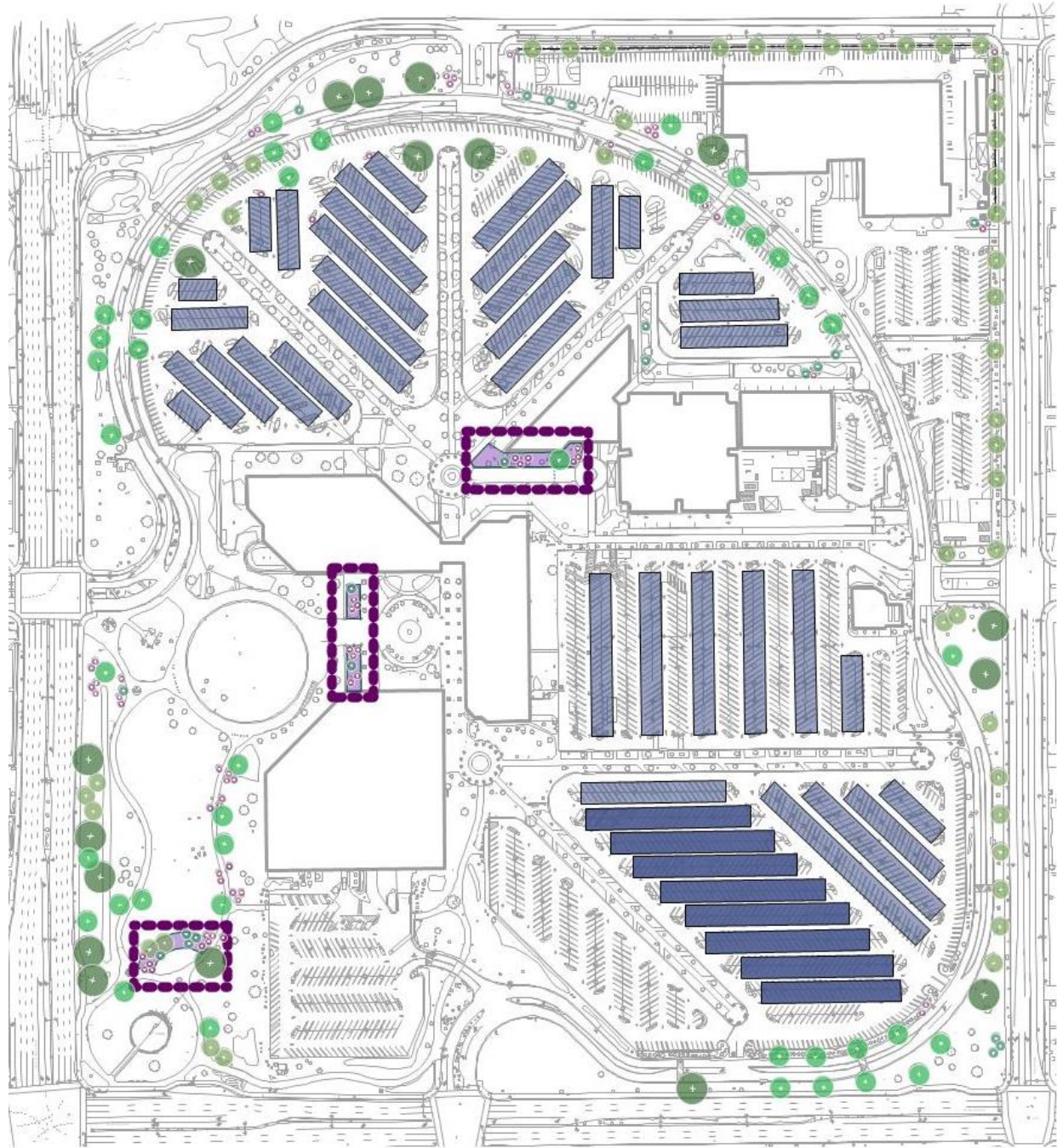
Medium Shade Tree *(Example)*
(24% of Proposed Trees)
 Lacebark Elm
 Sierra Oak
 (N) Island Oak



Small Accent Tree *(Example)*
(35% of Proposed Trees)
 (N) Western Redbud
 (N) Gambel Oak
 Chaste Tree

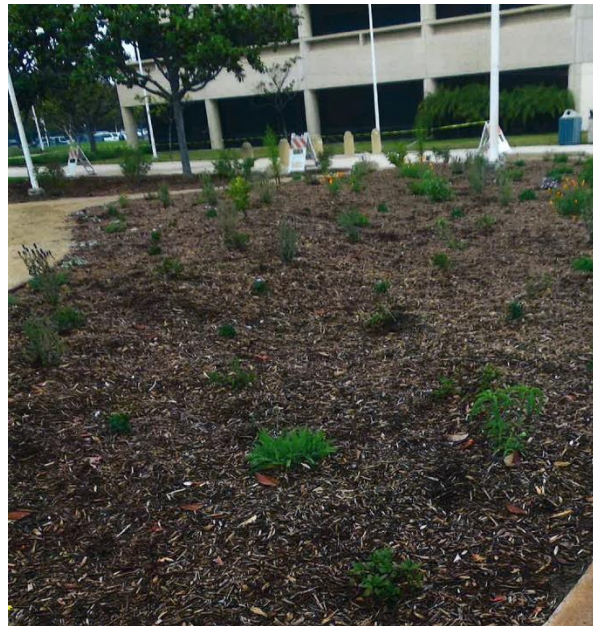
PROPOSED GARDEN LOCATIONS

A total of **3** new garden areas are proposed featuring flowering shrubs, succulents and trees that have been included in the total count.



PROPOSED GARDENS

Drought tolerant gardens featuring shrubs, perennials, small trees. Plants and design assistance are provided through Growing Works Nursery.



OFF-SITE TREE CAPACITY



GSA has evaluated and can use off-site locations to further increase tree counts in the future. However, tree capacity is limited due to property size.

Potential Locations include:

1911 Williams Dr., Oxnard
1732 Lewis Rd., Camarillo
4651 Telephone Rd., Ventura
4333 Vineyard Ave., Oxnard

SOLAR PROJECT BENEFITS



- Estimated energy cost savings of \$10.8M over a 20 year period.
- The project is not expected to be completed until the year 2025/2026 due to long design process and the need to phase construction in the parking lot, savings not realized until project substantially complete.
- Greenhouse gas reduction of 3,929 metric tons per year. Equivalent to 64,969 tree seedlings grown for 10 years.

200 TREES PROJECT BUDGET & TIMELINE

NO.	ITEM DESCRIPTION	ESTIMATE
Tree Planting (200 new trees)		\$ 112,000
1	New Tree (10 or 15 gallon) - Includes labor and amendments	\$ 45,000
2A	Initial Tree Irrigation - Tree Watering Bags	\$ 17,000
2B	Future Irrigation - Add retrofit drip irrigation to existing irrigation system. <i>(Assumes 200 trees)</i>	\$ 50,000
Gardens		\$ 108,611
3	Demo and removal of existing turf and or landscape	\$ 15,000
4	Planting (include shrubs and small trees)	\$ 52,500
5	3" Organic Mulch	\$ 11,111
6	Drip irrigation - Add retrofit drip irrigation to existing irrigation system.	\$ 30,000
SUBTOTAL		\$ 220,611
10% CONTINGENCY <i>(Construction Contingency)</i>		\$ 22,061
DESIGN FEES <i>(Allowance for planting plans and limited irrigation retrofit design)</i>		\$ 20,000
TOTAL ESTIMATED PROJECT COSTS <i>(*Construction Estimate Assumes Public Bid Prevailing Wage)</i>		\$ 262,672

Planting will be phased over a three-year period. Starting in **Spring of 2023** with expected completion by **Spring of 2025**. Subject to drought, weather or other intervening restrictions.

REQUEST FOR FUNDING



- Approve funding for 200 trees and three gardens (\$262,672) to begin the replacement plan in the Spring of 2023, prior to the completion of the Solar Panel Project in 2025/2026
- Funding now will enable new trees to become established prior to the completion of the Solar Panel Project

